

Respiratory Interleukins (Cinqair®, Fasenra®, & Nucala®)

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[Instructions for Use](#)

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Related Policies
None

Applicable States

This Medical Benefit Drug Policy applies to Individual Exchange benefit plans in all states except for Massachusetts, Nevada, and New York.

Coverage Rationale

[See Benefit Considerations](#)

This policy provides information about the use of certain specialty pharmacy medications administered by either the subcutaneous (SC) or intravenous (IV) route.

This policy refers to the following drug products:

- Cinqair® (reslizumab)
- Fasenra® (benralizumab)
- Nucala® (mepolizumab)

Eosinophilic Granulomatosis with Polyangiitis (EGPA)

Nucala for provider administration is proven and medically necessary for the treatment of EGPA when all of the following criteria are met:

- Diagnosis of relapsing or refractory EGPA as defined by **all** of the following:¹³
 - Diagnosis of EGPA; **and**
 - Past medical history or presence of asthma; **and**
 - Presence of **at least two** of the following characteristics typical of EGPA:
 - § Histopathological evidence of:
 - Eosinophilic vasculitis
 - Perivascular eosinophilic infiltration
 - Eosinophil-rich granulomatous inflammation
 - § Neuropathy, mono or poly (motor deficit or nerve conduction abnormality)
 - § Pulmonary infiltrates, non-fixed
 - § Sino-nasal abnormality

- § Cardiomyopathy (established by echocardiography or MRI)
- § Glomerulonephritis (hematuria, red cell casts, proteinuria)
- § Alveolar hemorrhage
- § Palpable purpura
- § Anti-neutrophil cytoplasmic antibody (ANCA) positive

and

- History of relapsing or refractory disease defined as **one** of the following:
 - § Relapsing disease as defined as a past history (within the past 2 years) of at least one EGPA relapse (requiring additional or dose escalation of corticosteroids or immunosuppressant, or hospitalization)
 - § Refractory disease as defined as failure to attain remission within the prior 6 months following induction treatment with standard therapy regimens

and

- Patient is currently taking standard therapy [i.e., systemic glucocorticoids (e.g., prednisone, methylprednisolone) with or without immunosuppressive therapy (e.g., cyclophosphamide, rituximab)]; **and**
- Patient is **not** receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**
- Dosing is in accordance with the U. S. Food and Drug Administration approved labeling; **and**
- Prescribed by a pulmonologist, rheumatologist, or allergist/immunologist; **and**
- Initial authorization will be for no more than 12 months

Reauthorization/Continuation of Care Criteria

Nucala, for provider administration, for the treatment of EGPA, authorization for continued use will be approved based on all of the following criteria:

- Documentation of positive clinical response as demonstrated by at least **one** of the following:
 - Reduction in the frequency and/or severity of relapses
 - Reduction or discontinuation of doses of corticosteroids and/or immunosuppressant
 - Disease remission
 - Reduction in severity or frequency of EGPA-related symptoms

and

- Patient is **not** receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**
- Dosing is in accordance with the U. S. Food and Drug Administration approved labeling; **and**
- Reauthorization will be for no more than 12 months

Severe Asthma

Cinqair

Cinqair, for intravenous use, is proven and medically necessary for add-on therapy when all of the following criteria are met: ²⁻⁶

- Diagnosis of severe asthma; **and**
- Classification of asthma as uncontrolled or inadequately controlled as defined by at least **one** of the following:
 - Poor symptom control (e.g., ACQ score consistently greater than 1.5 or ACT score consistently less than 20)
 - Two or more bursts of systemic corticosteroids for at least 3 days each in the previous 12 months
 - Asthma-related emergency treatment (e.g., emergency room visit, hospital admission, or unscheduled physician's office visit for nebulizer or other urgent treatment)
 - Airflow limitation (e.g., after appropriate bronchodilator withhold FEV1 less than 80% predicted (in the face of reduced FEV1/FVC defined as less than the lower limit of normal)
 - Patient is currently dependent on maintenance therapy with oral corticosteroids for the treatment of asthma
- and**
- Asthma is an eosinophilic phenotype as defined by a baseline (pre-reslizumab) peripheral blood eosinophil level of \geq 150 cells/ μ L

and

- Used in combination with **one** of the following:
 - **One** maximally-dosed (appropriately adjusted for age) combination inhaled corticosteroid (ICS)/long-acting beta₂ agonist (LABA) product [e.g., Advair/AirDuo Respiclick (fluticasone propionate/salmeterol), Symbicort (budesonide/formoterol), Breo Ellipta (fluticasone furoate/vilanterol)]
 - Combination therapy including **both** of the following:
 - § **One** maximally-dosed (appropriately adjusted for age) ICS product [e.g., ciclesonide (Alvesco[®]), mometasone furoate (Asmanex[®]), beclomethasone dipropionate (QVAR[®])]; **and**
 - § **One** additional asthma controller medication [e.g., LABA - olodaterol (Striverdi[®]) or indacaterol (Arcapta[®]), leukotriene receptor antagonist – montelukast (Singulair[®]), theophylline]

and

- **Both** of the following:
 - **One** of the following:
 - § History of failure to a 4 month trial of Fasenra or Nucala
 - § Contraindication or intolerance to Fasenra or Nucala
 - and**
 - **One** of the following:
 - § History of failure to a 4 month trial of Tezspire
 - § Contraindication or intolerance to Tezspire

and

- Patient is **not** receiving Cinqair in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Nucala (mepolizumab), Fasenra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]

and

- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Prescribed by a pulmonologist or allergist/immunologist; **and**
- Initial authorization will be for no more than 12 months

Fasenra

Fasenra for provider administration, is proven and medically necessary for add-on therapy when all of the following criteria are met:^{3, 5, 6, 10-12}

- Diagnosis of severe asthma; **and**
- Classification of asthma as uncontrolled or inadequately controlled as defined by at least one of the following:
 - Poor symptom control (e.g., Asthma Control Questionnaire (ACQ) score consistently greater than 1.5 or Asthma Control Test (ACT) score consistently less than 20]
 - Two or more bursts of systemic corticosteroids for at least 3 days each in the previous 12 months
 - Asthma-related emergency treatment (e.g., emergency room visit, hospital admission, or unscheduled physician's office visit for nebulizer or other urgent treatment)
 - Airflow limitation [e.g., after appropriate bronchodilator withhold forced expiratory volume in 1 second (FEV₁) less than 80% predicted (in the face of reduced FEV₁/forced vital capacity {FVC} defined as less than the lower limit of normal)]
 - Patient is currently dependent on maintenance therapy with oral corticosteroids for the treatment of asthma

and

- Asthma is an eosinophilic phenotype as defined by a baseline (pre-treatment) peripheral blood eosinophil level of ≥ 150 cells/ μ L; **and**
- Used in combination with one of the following:
 - **One** maximally-dosed (appropriately adjusted for age) combination ICS/ LABA product [e.g., Advair/AirDuo Respiclick (fluticasone propionate/salmeterol), Symbicort (budesonide/formoterol), Breo Ellipta (fluticasone furoate/vilanterol)]
 - Combination therapy including **both** of the following:
 - § **One** maximally-dosed (appropriately adjusted for age) ICS product [e.g., ciclesonide (Alvesco[®]), mometasone furoate (Asmanex[®]), beclomethasone dipropionate (QVAR[®])]; **and**
 - § **One** additional asthma controller medication [e.g., LABA - olodaterol (Striverdi[®]) or indacaterol (Arcapta[®]); leukotriene receptor antagonist – montelukast (Singulair[®]); theophylline]

and

- Patient is not receiving Fasenra in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Nucala (mepolizumab), Cinqair (reslizumab)]

- Anti-IgE therapy [e.g., Xolair (omalizumab)]
- Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
- Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]

and

- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Prescribed by a pulmonologist or allergist/immunologist; **and**
- Initial authorization will be for no more than 12 months

Nucala

Nucala for provider administration is proven and medically necessary for add-on therapy when all of the following criteria are met:^{1,3-6}

- Diagnosis of severe asthma; **and**
- Classification of asthma as uncontrolled or inadequately controlled as defined by at least **one** of the following:
 - Poor symptom control [e.g., Asthma Control Questionnaire (ACQ) score consistently greater than 1.5 or Asthma Control Test (ACT) score consistently less than 20]
 - Two or more bursts of systemic corticosteroids for at least 3 days each in the previous 12 months
 - Asthma-related emergency treatment (e.g., emergency room visit, hospital admission, or unscheduled physician's office visit for nebulizer or other urgent treatment)
 - Airflow limitation [e.g., after appropriate bronchodilator withhold forced expiratory volume in 1 second (FEV1) less than 80% predicted (in the face of reduced FEV1/forced vital capacity {FVC} defined as less than the lower limit of normal)]
 - Patient is currently dependent on maintenance therapy with oral corticosteroids for the treatment of asthma
- and**
- Asthma is an eosinophilic phenotype as defined by a baseline (pre-treatment) peripheral blood eosinophil level of ≥ 150 cells/ μ L; **and**
- Used in combination with **one** of the following:
 - **One** maximally-dosed (appropriately adjusted for age) combination ICS/ LABA product [e.g., Advair/AirDuo Respiclick (fluticasone propionate/salmeterol), Symbicort (budesonide/formoterol), Breo Ellipta (fluticasone furoate/vilanterol)]
 - Combination therapy including **both** of the following:
 - § **One** maximally-dosed (appropriately adjusted for age) ICS product [e.g., ciclesonide (Alvesco[®]), mometasone furoate (Asmanex[®]), beclomethasone dipropionate (QVAR[®])]; **and**
 - § **One** additional asthma controller medication [e.g., LABA - olodaterol (Striverdi[®]) or indacaterol (Arcapta[®]); leukotriene receptor antagonist – montelukast (Singulair[®]); theophylline]
- and**
- Patient is **not** receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**
- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Prescribed by a pulmonologist or allergist/immunologist; **and**
- Initial authorization will be for no more than 12 months

Reauthorization/Continuation of Care Criteria

For patients currently on Cinqair, Fasentra, or Nucala for the treatment of severe eosinophilic asthma, authorization for continued use will be approved based on all of the following criteria:

- Documentation of positive clinical response as demonstrated by at least one of the following:
 - Reduction in the frequency of exacerbations)
 - Decreased utilization of rescue medications
 - Increase in percent predicted FEV1 from pretreatment baseline
 - Reduction in severity or frequency of asthma-related symptoms (e.g., wheezing, shortness of breath, coughing, etc.)
- and**
- Used in combination with an ICS-containing maintenance medication [e.g., Advair/AirDuo (fluticasone/salmeterol), Breo Ellipta (fluticasone furoate/vilanterol), Symbicort (budesonide/ formoterol), Trelegy Ellipta (fluticasone furoate/umeclidinium/vilanterol)]; **and**

- Patient is **not** receiving the product in combination with **any** of the following:
 - **One** of the following:
 - § For **Cinqair** reauthorization/continuation, another anti-interleukin 5 therapy [e.g., Fasenra (benralizumab), Nucala (mepolizumab)]
 - § For **Fasenra** reauthorization/continuation, another anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Nucala (mepolizumab)]
 - § For **Nucala** reauthorization/continuation, another anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasenra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**
- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- For **Cinqair** reauthorization/continuation, **both** of the following:
 - **One** of the following:
 - § History of failure to a 4 month trial of Fasenra or Nucala
 - § Contraindication or intolerance to Fasenra or Nucala
 - and**
 - **One** of the following:
 - § History of failure to a 4 month trial of Tezspire
 - § Contraindication or intolerance to Tezspire
- and**
- Reauthorization will be for no more than 12 months

Hypereosinophilic Syndrome (HES)

Nucala

Nucala for provider administration is proven and medically necessary when all of the following criteria are met:¹

- Diagnosis of HES for ≥ 6 months; **and**
- **Both** of the following:
 - There is no identifiable non-hematologic secondary cause of the patient's HES (e.g., drug hypersensitivity, parasitic helminth infection, HIV infection, non-hematologic malignancy); **and**
 - HES is not FIP1L1-PDGFR α kinase-positive
- and**
- Submission of medical records (e.g., chart notes, laboratory values, etc.) documenting **both** of the following:
 - Baseline (pre-mepolizumab treatment) blood eosinophil level ≥ 1000 cells/ μ L within the past 4 weeks; **and**
 - Patient is currently receiving a stable dose of background HES therapy (e.g., oral corticosteroid, immunosuppressor, or cytotoxic therapy)
- and**
- Patient is **not** receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasenra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Prescribed by an allergist, immunologist, hematologist, cardiologist, or pulmonologist; **and**
- Initial authorization will be for no more than 12 months

Reauthorization/Continuation of Care Criteria

Nucala, for provider administration, for the treatment of HES, authorization for continued use will be approved based on all of the following criteria:

- Documentation of positive clinical response as demonstrated by at least **one** of the following:
 - Reduction in frequency of HES flares
 - Maintenance or reduction in background HES therapy requirements
- and**
- Patient is **not** receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasenra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]

- Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**
- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Reauthorization will be for no more than 12 months

Chronic Rhinosinusitis with Nasal Polyps (CRSwNP)

Nucala

Nucala for provider administration is proven and medically necessary when all of the following criteria are met:

- Diagnosis of chronic rhinosinusitis with nasal polyps (CRSwNP) defined by **all** of the following:
 - **Two or more** of the following symptoms for longer than 12 weeks duration:
 - § Nasal mucopurulent discharge
 - § Nasal obstruction, blockage, or congestion
 - § Facial pain, pressure, and/or fullness
 - § Reduction or loss of sense of smell
 - and**
 - **One** of the following findings using nasal endoscopy and/or sinus computed tomography (CT):
 - § Purulent mucus or edema in the middle meatus or ethmoid regions
 - § Polyps in the nasal cavity or the middle meatus
 - § Radiographic imaging demonstrating mucosal thickening or partial or complete opacification of paranasal sinuses
 - and**
 - **One** of the following:
 - § Presence of bilateral nasal polyposis
 - § Patient has previously required surgical removal of bilateral nasal polyps
 - and**
 - **One** of the following:
 - § Patient has required prior sinus surgery
 - § Patient has required systemic corticosteroids (e.g., prednisone, methylprednisolone) for CRSwNP in the previous 2 years
 - § Patient has been unable to obtain symptom relief after trial of two of the following classes of agents:
 - Nasal saline irrigations
 - Intranasal corticosteroids (e.g., fluticasone, mometasone, triamcinolone)
 - Antileukotriene agents (e.g., montelukast, zafirlukast, zileuton)
- and**
- Patient will receive Nucala as add-on maintenance therapy in combination with intranasal corticosteroids (e.g., fluticasone, mometasone, triamcinolone); **and**
- Patient is not receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**
- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Prescribed by an allergist/immunologist/otolaryngologist/pulmonologist; **and**
- Initial authorization will be for no more than 12 months

Reauthorization/Continuation of Care Criteria

For patients currently on Nucala for the treatment of CRSwNP authorization for continued use will be approved based on all of the following criteria:

- Documentation of positive clinical response to Nucala therapy; **and**
- Patient will continue to receive Nucala as add-on maintenance therapy in combination with intranasal corticosteroids (e.g., fluticasone, mometasone, triamcinolone); **and**
- Patient is not receiving Nucala in combination with **any** of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Thymic stromal lymphopoietin (TSLP) inhibitor [e.g., Tezspire (tezepelumab)]
- and**

- Dosing is in accordance with the United States Food and Drug Administration approved labeling; **and**
- Reauthorization will be for no more than 12 months

Unproven

Cinqair, Fasentra, and Nucala are unproven and not medically necessary in the following:^{1-2,8}

- Acute bronchospasm
- Chronic obstructive pulmonary disease (COPD)
- Granulomatosis with polyangiitis (Wegener's)
- Microscopic polyangiitis
- Organ or Life-threatening EGPA
- Other eosinophilic conditions
- Status asthmaticus

Applicable Codes

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this policy does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

HCPCS Code	Description	NDC
J0517	Injection, benralizumab, 1 mg	00310-1730-30 00310-1745-01 00310-1830-30
J2182	Injection, mepolizumab, 1 mg	00173-0881-01 00173-0892-01 00173-0892-42 00173-0904-42
J2786	Injection, reslizumab, 1 mg	59310-0610-31

Diagnosis Code	Description
D72.11	Hypereosinophilic Syndrome
J31.0	Chronic rhinitis
J32.0	Chronic maxillary sinusitis
J32.1	Chronic frontal sinusitis
J32.2	Chronic ethmoidal sinusitis
J32.3	Chronic sphenoidal sinusitis
J32.4	Chronic pansinusitis
J32.8	Other chronic sinusitis
J32.9	Chronic sinusitis, unspecified
J33.0	Polyp of nasal cavity
J33.1	Polypoid sinus degeneration
J33.8	Other polyp of sinus
J33.9	Nasal polyp, unspecified
J45.50	Severe persistent asthma, uncomplicated
J45.51	Severe persistent asthma with (acute) exacerbation
J45.52	Severe persistent asthma with status asthmaticus
J82.81	Chronic eosinophilic pneumonia
J82.82	Acute eosinophilic pneumonia
J82.83	Eosinophilic asthma

Diagnosis Code	Description
J82.89	Other pulmonary eosinophilia, not elsewhere classified
M30.1	Polyarteritis with lung involvement [Churg-Strauss]

Background

Asthma is a common chronic inflammatory disease of the airways that affects an estimated 24 million adults and children. Although the disease is well controlled with inhaled therapy in most patients, approximately 1.2-2.4 million people have severe asthma (i.e., 5-10% of the asthma population) that is associated with substantial morbidity, mortality, and economic effects. Asthma has been divided into subtypes, some of which are associated with airway inflammation with eosinophils. It is estimated that about half of individuals with severe asthma exhibit the eosinophilic phenotype with elevated eosinophil levels (a marker of inflammation) in both the blood and airways. Activated eosinophils can increase airway smooth muscle contraction and mucous secretion, which are hallmarks of asthma. Interleukin-5 (IL-5) is an important cellular signal in eosinophilic inflammation. Therapies that decrease IL-5 levels, such as Nucala (mepolizumab) and Cinqair (reslizumab), may decrease eosinophils in lung tissue. Fasentra (benralizumab) directly binds to the human IL-5 receptor on the surface of eosinophils and basophils, leading to the apoptosis of these cells through antibody-dependent cell mediated cytotoxicity.^{4,7,9,10}

Eosinophilic granulomatosis with polyangiitis (EGPA, Churg-Strauss syndrome) is characterized by asthma, sinusitis, pulmonary infiltrates, neuropathy, and eosinophilic vasculitis of one or more end organs. It is thought that eosinophils mediate the effects in patients with EGPA by infiltrating tissue and vasculature, causing inflammation. Systemic glucocorticoids are currently the standard of treatment for EGPA, however, some patients do not have sufficient response to therapy. Mepolizumab, by inhibiting IL-5 signaling, reduces the production and survival of eosinophils; however, the mechanism of mepolizumab action in asthma and EGPA has not been definitively established.^{1,13}

Hypereosinophilic Syndrome (HES) is a disorder marked by the sustained overproduction of eosinophils associated with damage to one or more organs due to eosinophilic infiltration and mediator release. HES is rare and the true prevalence is unknown. One study that used clinician coding of eosinophilia to identify patients with HES in the Surveillance, Epidemiology, and End Results (SEER) database, concluded the estimated prevalence was between 0.36 to 6.3 per 100,000. Most patients are between 20 and 50 years of age at the time of diagnosis, although HES can develop in children. One study suggested that the frequencies of clinical HES variants (including myeloproliferative variants) were similar in children and adults. Certain variants of HES (i.e., those associated with aberrations in the gene for tyrosine kinase receptor platelet-derived growth factor receptor alpha [PDGFRA] and platelet-derived growth factor beta [PDGFRB]) occur almost exclusively in males, whereas others (lymphocytic variant HES [L-HES] and HES of unknown etiology) appear to be equally distributed between the sexes. Patients with HES usually have more than 1500 eosinophils/ μ L in their blood for 6 months or more, and the cause cannot be identified. The eosinophils disperse to various tissues, causing inflammation and eventually organ dysfunction. Mepolizumab binds to IL-5 inhibiting the production of eosinophils, thereby reducing inflammation.^{16, 17, 18}

Chronic rhinosinusitis with nasal polyps is an inflammatory condition involving the paranasal sinuses and linings of the nasal passages, which persists for 12 weeks or longer, and affects approximately 2-4% of the population. Symptoms include mucopurulent drainage, nasal obstruction, facial pain/pressure/fullness, and decreased sense of smell. CRSwNP cannot be cured in most patients and therapy is intended to reduce symptoms and improve quality of life. Standard treatment includes therapies to minimize inflammation such as intranasal corticosteroids and antileukotriene agents. If intranasal and oral corticosteroids fail to reduce polyp tissue sufficiently and the patient has persistent blockage, sinus surgery or therapy with a biologic recommended. Mepolizumab binds to IL-5, inhibiting the production of eosinophils, thereby reducing inflammation.^{1,21,22}

Benefit Considerations

Some Certificates of Coverage allow for coverage of experimental/investigational/unproven treatments for life-threatening illnesses when certain conditions are met. The member specific benefit plan document must be consulted to make coverage decisions for this service. Some states mandate benefit coverage for off-label use of medications for some diagnoses or under some circumstances when certain conditions are met. Where such mandates apply, they supersede language in the benefit document or in the medical or drug policy. Benefit coverage for an otherwise unproven service for the treatment of serious rare diseases may occur when certain conditions are met. Refer to the Policy and Procedure addressing the treatment of serious rare diseases.

Proven

Eosinophilic Granulomatosis With Polyangiitis (EGPA)

Mepolizumab is indicated for the treatment of adult patients with eosinophilic granulomatosis with polyangiitis (EGPA).¹

In a post hoc analysis of the phase III clinical trial, Steinfeld et al, investigated the clinical benefit of mepolizumab in patients with EGPA that factors in remission, oral glucocorticoid (OGC) dose reduction, and EGPA relapses.¹⁴ The post hoc clinical benefit was defined as: remission at any time (2 definitions used), 50% or greater OGC dose reduction during weeks 48 to 52, or no EGPA relapses. The 2 remission definitions were Birmingham Vasculitis Activity Score of 0 plus OGC dose of 4 mg/d or less (remission 1/clinical benefit 1) or 7.5 mg/d or less (remission 2/clinical benefit 2). Clinical benefit was assessed in all patients and among subgroups with a baseline blood eosinophil count of less than 150 cells/ μ L, baseline OGC dosage of greater than 20 mg/d, or weight of greater than 85 kg. With mepolizumab versus placebo, 78% versus 32% of patients experienced clinical benefit 1, and 87% versus 53% of patients experienced clinical benefit 2 (both $P < .001$). Significantly more patients experienced clinical benefit 1 with mepolizumab versus placebo in the blood eosinophil count less than 150 cells/ μ L subgroup (72% vs 43%, $P = .033$) and weight greater than 85 kg subgroup (68% vs 23%, $P = .005$); in the OGC greater than 20 mg/d subgroup, results were not significant but favored mepolizumab (60% vs 36%, $P = .395$). The authors concluded that the majority of patients with EGPA experienced benefit with mepolizumab.

In a multicenter, double-blind, parallel-group, phase 3 trial, Wechsler et al, evaluated the efficacy and safety mepolizumab versus placebo for eosinophilic granulomatosis with polyangiitis (EGPA).¹³ Patients with relapsing or refractory EGPA were randomly assigned to receive 300 mg of mepolizumab ($n = 68$) or placebo ($n = 68$) subcutaneously every 4 weeks, plus standard care, for 52 weeks. Patients had to have received treatment for at least 4 weeks and were taking stable corticosteroid dosing for at least 4 weeks. The two primary end points were the accrued weeks of remission over the 52 week period, and the proportion of participants in remission at both week 36 and week 48. Secondary endpoints included: time to first relapse and average daily glucocorticoid use at weeks 48 through 52). Patients receiving mepolizumab had significantly more accrued weeks of remission than placebo (28% vs. 3% had 24 weeks of accrued remission; odds ratio, 5.91; 95% confidence interval [CI], 2.68 to 13.03; $P < 0.001$) and a higher percentage of patients were in remission at both week 36 and week 48 (32% vs. 3%; odds ratio, 16.74; 95% CI, 3.61 to 77.56; $P < 0.001$). Remission did not occur in 47% of the patients in the mepolizumab group versus 81% of those in the placebo group. The annualized relapse rate was 1.14 in the mepolizumab group, as compared with 2.27 in the placebo group (rate ratio, 0.50; 95% CI, 0.36 to 0.70; $P < 0.001$). A total of 44% of the patients in the mepolizumab group, as compared with 7% of those in the placebo group, had an average daily dose of prednisolone or prednisone of 4.0 mg or less per day during weeks 48 through 52 (odds ratio, 0.20; 95% CI, 0.09 to 0.41; $P < 0.001$). The authors concluded that in patients with EGPA, mepolizumab resulted in significantly more weeks in remission and a higher proportion of patients in remission than placebo, although only half of the patients treated with mepolizumab had protocol-defined remission.

Severe Eosinophilic Asthma

Benralizumab is indicated for the add-on maintenance treatment of patients with severe asthma aged 6 years and older, and with an eosinophilic phenotype.¹⁰

Mepolizumab is indicated for the add-on maintenance treatment of patients with severe asthma aged 12 years and older, and with an eosinophilic phenotype.¹

Reslizumab is indicated for the add-on maintenance treatment of patients with severe asthma aged 18 years and older, and with an eosinophilic phenotype.²

Hypereosinophilic Syndrome

Mepolizumab is indicated for the treatment of adult and pediatric patients aged 12 years and older with hypereosinophilic syndrome (HES) for ≥ 6 months without an identifiable non-hematologic secondary cause.

In a multicenter, randomized, placebo-controlled, 32-week treatment trial. Patients with non-hematologic secondary HES (e.g., drug hypersensitivity, parasitic helminth infection, HIV infection, non-hematologic malignancy) or FIP1L1-PDGFR α kinase-positive HES were excluded from the trial. Patients received 300 mg of Nucala ($n = 54$) or placebo ($n = 54$) subcutaneously once every 4 weeks. Patients were required to have been on a stable dose of background HES therapy (oral corticosteroids, immunosuppressive, or cytotoxic therapy) for 4 weeks prior to randomization and continue their therapy throughout the trial. Patients entering the trial had experienced at least 2 HES flares within the past 12 months

and blood eosinophil count of 1,000 cells/mcL or higher during screening. The primary endpoint was percentage of patients who experienced ≥ 1 HES flare during the 32-week treatment period or who withdrew from the study. A HES flare was defined as a HES related clinical manifestation based on a physician-documented change in clinical signs or symptoms which resulted in need for an increase in the maintenance oral corticosteroid dose by at least 10 mg per day for 5 days or an increase in or addition of any cytotoxic or immunosuppressive HES therapy. HES flare was also defined as receipt of two or more courses of blinded active oral corticosteroid during the treatment period. The secondary endpoints included time to first flare, proportion of patients who experienced flares during Week 20 to Week 32, and number of HES flares per participant per year. Over the 32-week treatment period, the incidence of HES flare was 56% for the placebo group and 28% for the Nucala group (odds ratio, 0.28; 95% CI 0.12 to 0.64; $P = 0.002$). The risk of first HES flare over the treatment period was 66% lower for patients treated with Nucala compared to placebo (hazard ratio: 0.34; 95% CI 0.18 to 0.72; $P = 0.002$). From Week 20 through Week 32, significantly fewer patients experienced a HES flare or withdrew from the trial when treated with Nucala compared with placebo (17% versus 35%, respectively; $P = 0.02$; odds ratio, 0.33; 95% CI: 0.13 to 0.85). Patients who received Nucala experienced significantly fewer HES flares during a 32-week treatment period compared with the placebo group (rate ratio, 0.35; 95% CI 0.19 to 0.63; Wilcoxon P value (unadjusted/adjusted) 0.002/0.02).¹

Chronic Rhinosinusitis With Nasal Polyps

Mepolizumab is indicated for add-on maintenance treatment of adult patients 18 years and older with chronic rhinosinusitis with nasal polyps (CRSwNP) and an inadequate response to nasal corticosteroids.

A total of 407 adult patients with CRSwNP were evaluated in a randomized, double-blind, placebo-controlled, multicenter, 52-week trial (NCT03085797). Patients received NUCALA 100 mg or placebo administered subcutaneously once every 4 weeks while continuing nasal corticosteroid therapy. Patients must have received background nasal corticosteroid for = 8 weeks pre-screening. Patients had recurrent and symptomatic CRSwNP and had at least 1 surgery for the removal of nasal polyps within the previous 10 years. Patients were required to have nasal obstruction symptoms with a visual analog scale (VAS) score of > 5 out of a maximum score of 10. Patients were also required to have an endoscopic bilateral nasal polyp score (NPS) of = 5 out of 8 with NPS = 2 in each nasal cavity. Patients reported nasal obstruction VAS scores daily by placing a single mark on a continuous line labeled from 0 (none) to 100 (as bad as you can imagine). The distance along the line was converted to a 0 to 10 point scale for scoring. For NPS, polyps on each side of the nose were graded on a categorical scale (0 = no polyps, 1 = small polyps in the middle meatus not reaching below the inferior border of the middle concha, 2 = polyps reaching below the lower border of the middle turbinate, 3 = large polyps reaching the lower border of the inferior turbinate or polyps medial to the middle concha, 4 = large polyps causing almost complete congestion/obstruction of the inferior meatus) for a total score of 0 to 8. Sinus CT scans were not performed at baseline nor during treatment to evaluate for sinus opacification.

The co-primary endpoints were change from baseline to Week 52 in total endoscopic NPS (0 to 8 scale) as graded by independent blinded assessors and change from baseline in nasal obstruction VAS score (0 to 10 scale) during Weeks 49 to 52. The key secondary endpoint was the time to first nasal surgery (nasal polypectomy) up to Week 52 in this trial. Other secondary endpoints were change from baseline in loss of smell VAS score during Weeks 49 to 52, and proportion of patients requiring systemic steroids for nasal polyps up to Week 52. All VAS scores were collected daily by the patients and reported on a 0 to 10 scale (0 = none, 10 = as bad as you can imagine).

Patients who received NUCALA 100 mg had a statistically significant improvement (decrease) in bilateral NPS at Week 52 and nasal obstruction VAS score from Weeks 49 to 52 at the end of the 52 week treatment period. The key secondary endpoint was the time to first nasal surgery (nasal polypectomy) up to Week 52. The proportion of patients who had surgery was significantly reduced by 57% (hazard ratio: 0.43, 95% CI: 0.25, 0.76) in the group treated with NUCALA 100 mg compared with the placebo group (Figure 2). By Week 52, 18 (9%) patients who received NUCALA 100 mg had surgery compared with 46 (23%) patients in the placebo group. For patients who received NUCALA 100 mg, statistically significant improvement was observed in loss of smell compared to placebo and improvements were also observed in the individual VAS symptom scores compared with patients in the placebo group in the 4-weeks prior to the end of the 52-week treatment period. Treatment with NUCALA 100 mg significantly reduced the need for systemic steroids for nasal polyps vs. placebo up to Week 52 (odds ratio: 0.58, 95% CI: 0.36, 0.92). In patients who received NUCALA 100 mg, 52 (25%) required = 1 course of systemic steroids compared with 74 (37%) in the placebo group throughout the 52-week treatment period.¹

Professional Societies

Asthma

Global Initiative for Asthma

The Global Initiative for Asthma (GINA, 2023) defines uncontrolled, difficult-to-treat and severe asthma as follows⁶:

Respiratory Interleukins (Cinqair[®], Fasenra[®], & Nucala[®])
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- Uncontrolled asthma is asthma with poor symptom control (frequent symptoms or reliever use, activity limited by asthma, night waking due to asthma) and/or frequent exacerbations (≥ 2 /year) requiring OCS, or serious exacerbations (≥ 1 /year) requiring hospitalization.
- Difficult-to-treat asthma is asthma that is uncontrolled despite prescribing of medium- or high-dose ICS with a second controller (usually a LABA) or maintenance OCS, or that requires high-dose treatment to maintain good symptom control and reduce the risk of exacerbations.
- Severe asthma is asthma that is uncontrolled despite adherence with maximal optimized high-dose ICS-LABA treatment and management of contributory factors, or that worsens when high-dose treatment is decreased. Asthma is not classified as severe if it markedly improves when contributory factors such as inhaler technique and adherence are addressed.

The Global Initiative for Asthma (GINA, 2023) recommends add-on biologic therapy for treatment of adults, adolescents and children with uncontrolled severe asthma despite optimized maximal therapy as follows:¹

- Add-on anti-immunoglobulin E (anti-IgE) treatment (omalizumab) for patients aged ≥ 6 years) with severe allergic asthma (Evidence A)
- Add-on anti-interleukin 5/5R treatment (subcutaneous mepolizumab for patients aged ≥ 6 years; intravenous reslizumab for ages ≥ 18 years; subcutaneous benralizumab for ages ≥ 12 years) with severe eosinophilic asthma (Evidence A)
- Add-on anti-interleukin-4R α treatment (subcutaneous dupilumab) for patients aged ≥ 6 years with severe eosinophilic/Type 2 asthma, or for adults or adolescents requiring treatment with maintenance OCS. (Evidence A)
- Add-on anti-thymic stromal lymphopoietin (anti-TSLP) treatment (subcutaneous tezepelumab for patients aged ≥ 12 years with severe asthma (Evidence A)

The Global Initiative for Asthma (GINA, 2023) recommends that low dose oral corticosteroids (≤ 7.5 mg/day prednisone equivalent) should only be considered as last resort in adult patients with severe asthma with poor symptom control and/or frequent exacerbations despite good inhaler technique and adherence with Step 5 treatment, and after exclusion of other contributory factors and other add-on treatments including biologics where available and affordable. (Evidence D). Oral corticosteroids are often associated with substantial side effects. (Evidence A)

Institute for Clinical and Economic Review (ICER)

On March 14, 2016, the Institute for Clinical and Economic Review (ICER) released a clinical report entitled, "Mepolizumab (Nucala[®], GlaxoSmithKline plc.) for the Treatment of Severe Asthma with Eosinophilia: Effectiveness, Value, and Value-Based Price Benchmarks." ICER recommendations are as follows:⁴

- ICER judges the current body of evidence on **mepolizumab** to be "comparable or better."
- For adult patients with severe eosinophilic asthma, ICER judges there to be moderate certainty of a comparable or better net benefit for **mepolizumab** 100mg SC every four weeks as add-on maintenance treatment compared with standard of care including high dose ICS, LABA, and additional controller medications. There is moderate certainty because both the MENSA trial, which demonstrated a significant reduction in asthma exacerbations, and the SIRIUS trial, which demonstrated a significant reduction in oral corticosteroids dosage, were relatively small studies of short duration. There remains uncertainty about the long-term durability of the benefits of the therapy and about the potential harms from modulation of the immune system. Ongoing post-marketing trials and extension studies evaluating **mepolizumab** may demonstrate a wide variety of outcomes, from substantial net health benefit to a comparable net benefit given the potential harms associated with the monoclonal antibody (opportunistic infection, anaphylaxis).

On November 13, 2018, ICER released a clinical report entitled, "Biologic Therapies for Treatment of Asthma Associated with Type 2 Inflammation: Effectiveness, Value, and Value-Based Price Benchmarks." ICER recommendations are as follows:⁵

- ICER judges the current body of evidence on **omalizumab** and **mepolizumab** to be "incremental" compared to standard of care.
- ICER judges the current body of evidence on **reslizumab**, **benralizumab**, and **dupilumab** to be "comparable or better" compared with standard of care.
- Comparisons between biologic therapies for asthma resulted in low certainty in the comparative clinical effectiveness of agents, and was given an I rating, or insufficient.

European Respiratory Society (ERS)/American Thoracic Society (ATS)

The first European Respiratory Society (ERS)/American Thoracic Society (ATS) guidelines on severe asthma were published in 2014. Severe asthma was defined as that which requires treatment with high-dose ICSs plus a second controller (or systemic corticosteroids) to prevent progression to uncontrolled disease status or continuing uncontrolled

disease status despite this therapy.³ Emphasis was placed on the necessity to confirm the diagnosis of asthma and exclude other conditions that may mimic asthma. In addition, the guidelines recognized that severe asthma is a heterogeneous condition consisting of phenotypes such as severe eosinophilic asthma, and specific recommendations were made on the use of sputum eosinophil count and exhaled nitric oxide fraction (F_{ENO}) to guide therapy. Recommendations were also made for the use of methotrexate, macrolide antibiotics, antifungal agents, bronchial thermoplasty and the anti-IgE antibody omalizumab in severe asthma.

In 2020, the European Respiratory Society (ERS)/American Thoracic Society (ATS) published updated guidelines for the management of asthma.²³ Six specific and important questions were formulated using the PICO (Patient population, Intervention, Comparison and Outcome) format. The GRADE (Grading of Recommendations, Assessment, Development and Evaluation) approach was used to assess the strength of evidence and develop recommendations. These recommendations are summarized below:

- An anti-interleukin (IL)-5 and anti-IL-5 receptor α for severe uncontrolled adult eosinophilic asthma phenotypes
- A blood eosinophil cut-point $\geq 150 \mu\text{L}^{-1}$ to guide anti-IL-5 initiation in adult patients with severe asthma
- Specific eosinophil ($\geq 260 \mu\text{L}^{-1}$) and exhaled nitric oxide fraction (≥ 19.5 ppb) cut-offs to identify adolescents or adults with the greatest likelihood of response to anti-IgE therapy
- Inhaled tiotropium for adolescents and adults with severe uncontrolled asthma despite Global Initiative for Asthma (GINA) step 4-5 or National Asthma Education and Prevention Program (NAEPP) step 5 therapies
- A trial of chronic macrolide therapy to reduce asthma exacerbations in persistently symptomatic or uncontrolled patients on GINA step 5 or NAEPP step 5 therapies, irrespective of asthma phenotype
- Anti-IL-4/13 for adult patients with severe eosinophilic asthma and for those with severe corticosteroid-dependent asthma regardless of blood eosinophil levels

Unproven

Nucala and Cinqair have additional uses listed in the FDA-label:¹⁻²

- Other eosinophilic conditions
- Acute bronchospasm
- Status asthmaticus
- Chronic obstructive pulmonary disease (COPD)

Statistically robust randomized controlled trials are necessary to establish the safety and efficacy of Fasenera, Nucala and Cinqair to treat these conditions.^{1-2,8,10}

U.S. Food and Drug Administration (FDA)

This section is to be used for informational purposes only. FDA approval alone is not a basis for coverage.

Cinqair (Reslizumab)

Cinqair is approved by the U.S. Food and Drug Administration (FDA) for the add-on maintenance treatment of patients with severe asthma aged 18 years and older, who have an eosinophilic phenotype. Cinqair is not indicated for the treatment of other eosinophilic conditions or for acute bronchospasm or status asthmaticus. Because of the risk of anaphylaxis, healthcare providers administering Cinqair should observe patients closely for an appropriate period of time and be prepared to manage anaphylaxis that can be life-threatening.²

Fasenera (Benralizumab)

Fasenera is approved by the U.S. Food and Drug Administration (FDA) for the add-on maintenance treatment of patients with severe asthma aged 6 years and older, who have an eosinophilic phenotype. Fasenera is not indicated for the treatment of other eosinophilic conditions or for acute bronchospasm or status asthmaticus.¹⁰

Nucala (Mepolizumab)

Nucala is approved by the U.S. Food and Drug Administration (FDA) for the add-on maintenance treatment of patients with severe asthma aged 6 years and older, who have an eosinophilic phenotype. Nucala is not indicated for the treatment of other eosinophilic conditions or for acute bronchospasm or status asthmaticus. Nucala is also indicated for the treatment of adult patient with eosinophilic granulomatosis with polyangiitis (EGPA), the treatment of adult and pediatric patients aged 12 years and older with hypereosinophilic syndrome (HES) for ≥ 6 months without an identifiable non-hematologic secondary cause, and for add-on maintenance treatment of adult patients 18 years and older with chronic rhinosinusitis with nasal polyps (CRSwNP) who have had an inadequate response to intranasal corticosteroids.¹

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Policy History/Revision Information

Date	Summary of Changes
08/01/2024	<p>Coverage Rationale</p> <ul style="list-style-type: none"> Added language to clarify Cinqair <i>for intravenous use</i> is medically necessary when all of the [listed] criteria are met <p>Severe Asthma</p> <p>Reauthorization/Continuation of Care Criteria</p> <ul style="list-style-type: none"> Revised coverage criteria; replaced criterion requiring “the patient is not receiving Cinqair/Fasenra/Nucala in combination with another anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasenra (benralizumab), Nucala (mepolizumab)], respectively” with “the patient is not receiving Cinqair/Fasenra/Nucala in combination with one of the following: <ul style="list-style-type: none"> For Cinqair reauthorization/continuation, another anti-interleukin 5 therapy [e.g., Fasenra (benralizumab), Nucala (mepolizumab)]; or For Fasenra reauthorization/continuation, another anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Nucala (mepolizumab)]; or For Nucala reauthorization/continuation, another anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasenra (benralizumab)]” <p>Applicable Codes</p> <ul style="list-style-type: none"> Updated list of applicable National Drug Codes (NDC) for HCPCS code J0517; added 00310-1745-01 <p>Supporting Information</p> <ul style="list-style-type: none"> Updated <i>Clinical Evidence</i>, <i>FDA</i>, and <i>References</i> sections to reflect the most current information Archived previous policy version IEXD0055.10

Instructions for Use

This Medical Benefit Drug Policy provides assistance in interpreting UnitedHealthcare benefit plans. When deciding coverage, the member specific benefit plan document must be referenced as the terms of the member specific benefit plan may differ from the standard benefit plan. In the event of a conflict, the member specific benefit plan document governs. Before using this policy, please check the member specific benefit plan document and any applicable federal or state mandates. UnitedHealthcare reserves the right to modify its Policies and Guidelines as necessary. This Medical Benefit Drug Policy is provided for informational purposes. It does not constitute medical advice.

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